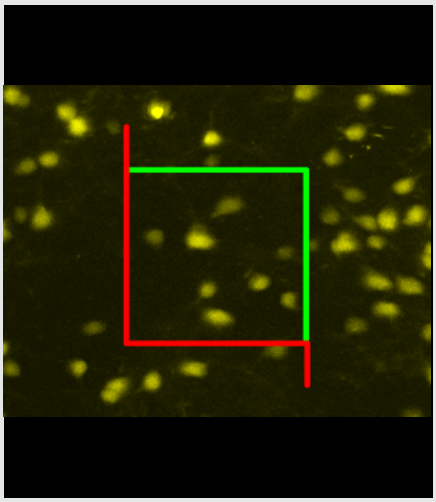
Stereo Investigator®

Cleared Tissue Edition

Accurate Unbiased Stereology for Cleared Tissue

Stereo Investigator – Cleared Tissue Edition is the gold standard in unbiased stereology for use on cleared tissue. It allows researchers to use the world's most cited stereology software—MBF Bioscience's Stereo Investigator —to analyze intact, cleared tissue specimens imaged with light sheet, confocal microscopes and even MicroCT.



Stereo Investigator – Cleared Tissue Edition is software specifically engineered for analyzing cleared tissue image data accurately and efficiently. It includes the Image Volume Fractionator, a new, state-of-the-art stereological probe developed by MBF Bioscience to count cells in large, 3D images of intact specimens.

Features

- Quantifies:
  - Numbers of cells
  - Cell volume and surface area
  - Length of branching structures
  - Region volumes and surface areas
- Reads image files produced by most light sheet and confocal microscopes
- High-performance 3D visualization
- Intuitive workflows make it easy to learn and use

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Design-based stereology is a set of data analysis methods that ensure integrity in the quantitative analysis of the size, shape, and number of objects in a tissue sample. Stereology produces results that are unbiased and more reliable than non-stereologic analyses.

Traditional unbiased stereology was created to accurately quantify tissue sections. We've developed a new method in Stereo Investigator – Cleared Tissue Edition to solve the challenges inherent in working with large intact cleared tissue images

Specially Designed Stereology Probes for Analyzing Cleared Tissue

There are numerous stereological probes included in Stereo Investigator Cleared Tissue Edition for quantifying number, length, surface, volume, and area:

Number:

- Image Volume Fractionator

Length:

- Image Volume Spaceballs
- Cycloids for Lv

Volume/Area:

- Area Fraction Fractionator
- Nucleator
- Cavalieri Estimator
- Planar Rotator
- Optical Rotator

Surface:

- Isotropic Fakir
- Surfactor
- Optical Rotator

Learn more at : mbfbioscience.com/stereo-investigator-cleared-tissue-edition

About MBF Bioscience

A rich history of creating the future of neuroscience. MBF Bioscience develops advanced tools for collecting and analyzing accurate, reproducible data from histological specimens, 2D and 3D microscope images, and freely moving *C. elegans* so that scientists can better understand brain diseases and processes at a cellular level.

Our products have helped researchers publish over 15,000 peer reviewed papers.

What our customers say

"Stereo Investigator Cleared Tissue edition is great! We used it on large light-sheet datasets obtained from human brains with 4-channel imaging for different markers of neuronal populations. We could obtain cell type-specific stereologic data from a cytoarchitecturally defined region of the neocortex. We then registered the entire stereologic dataset, including laminar boundaries and sampled cells, to a high-resolution MRI dataset.

Patrick R. Hof, Ph.D.
Icahn School of Medicine at Mount Sinai

"Stereo Investigator is the gold standard for unbiased stereology, and I can't say enough to praise the technical support provided by MBF Bioscience.

Bob Jacobs, Ph.D.
Colorado College

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